ROVAL RAPIDE WHEELSET OWNER'S GUIDE

THIS BRIEF INSTALLATION GUIDE CONTAINS IMPORTANT INFORMATION. PLEASE READ CAREFULLY AND STORE IN A SAFE PLACE.

Congratulations! The Roval wheelset you have chosen is among the finest of advanced composite products available in cycling. Carbon fiber is a very special material that requires particular care during assembly, storage and riding. This short form installation guide contains instructions and warnings, plus maintenance information.

Please read the following Warnings. Because the failure to follow any Warning may result in a catastrophic failure of the wheels, resulting in serious personal injury or death, this phrase may not be repeated in connection with each Warning.

Warning! Bicycle assembly is a complicated task requiring training and experience, which should only be carried out by a trained and experienced bicycle mechanic. Do not attempt installation of any component if you do not have experience and training as a bicycle mechanic.

BRAKE PAD INSTALLATION

- Refer to the installation procedures recommended by the component manufacturer.
- Ensure that the pads are properly positioned and aligned.
- Ensure that the pads do not touch the rims when the wheel is rotating.

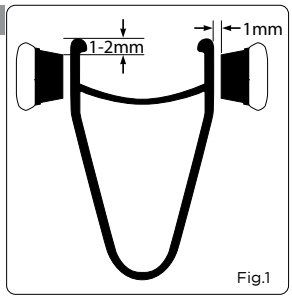


Fig.1

When correctly positioned, the brake pads should be 1mm away from the braking surface of the rim. The pads should be positioned 1 to 2mm below the outer edge of the rim to prevent contact with the tire (fig.1)..

WARNING! Only use brake pads recommended by Roval:

- Roval pads for carbon rims
- Swissstop Yellow King pads for carbon rims
- Kool Stop pads for carbon rims (charcoal colored)

Not all brands of pads are recommended. Use of other manufacturer's pads will void the warranty. Call customer service for updates on authorization of different pads.

BRAKE PAD REPLACEMENT

IMPORTANT! Most brake pads for carbon rims have grooves or wear indicators to show you how much life your pads have left. It's very important to replace the brake shoes when they are worn to the bottom of the indicators.

WARNING! Do not use pads previously used on aluminum rims. Alloy particles may be embedded into the pads, which will damage the carbon surface. Always use a clean set of pads when installing the Roval wheels.

BEFORE EVERY RIDE:

- Ensure that the quick-releases are securely fastened, and that the axles are centered within the dropouts.
- Inspect the rims and tires for any signs of excessive wear.
- Inspect the tires to ensure correct tire pressure and that the beads are properly seated within the rim.
- Ensure that the wheels spin true and smooth with no side-to-side play, and spoke tension is even on all spokes. There should be no contact between the rim and the brake pad.
- Inspect the spokes for any signs of damage.
- Inspect the brakes for any signs of cable damage, excessive brake pad wear or misalignment.

WARNING!

- **Do not exceed tire's maximum pressure rating, and do not exceed 120 psi (8.3 bars).**
- **Do not under inflate tires. Under inflation may allow contact between the rim and the road surface.**
- **Do not use tires narrower than 22mm. Tires narrower than 22mm may not protect the rim adequately from impacts.**

WARNING! Use proper braking techniques. The front brake possesses most of the stopping power and should be used accordingly. Excessive or exclusive use of the rear brake to control speed on long descents is not recommended. Prolonged, continuous use of brakes can build up excessive heat, which may result in failure of rim, tire and/or tube.

GENERAL MAINTENANCE

- **For all repair requirements, the wheels must be sent to the Roval Service center, through your authorized Roval dealer.**
- Roval wheels should be regularly inspected by a qualified bicycle technician at an authorized Roval dealer, or by the Roval Service Center. Regular maintenance is essential for maximum service life of the wheel.
- Always use a wheel bag for storage or transportation to prevent damage. Prolonged exposure to sunlight can cause the carbon to yellow over time.
- Use only mild soap and water to clean the wheels. Do not use solvents or harsh chemicals.
- Avoid direct contact with pressurized water on the hub to prevent bearing or freehub damage.

Refer to following pages for hub maintenance steps.

ADDITIONAL WARNINGS!

- **Ensure that the rim's braking surface is kept clean. Grease, oil and other contaminants can affect braking performance.**
- **Do not make any modifications to the wheels. To do so will void the warranty and may cause failure.**
- **Do not ride on components that have been damaged in an accident or have worn beyond their usable limit. ALWAYS HAVE DAMAGED OR WORN PARTS REPLACED BEFORE YOUR NEXT RIDE.**
- **Many different factors can affect the life span of Roval Wheels. Adverse environmental conditions, impacts, falls, and road hazards may compromise the structural integrity of the wheels and significantly reduce their lifespan. Wheels and related components are subject to wear over time. It is important to have your wheels regularly inspected by a qualified mechanic for damage, fatigue, or signs of wear. If the inspection finds any signs of damage (cracks, stress marks, deformations), fatigue or wear immediately replace the wheel or affected part.**
- **Great care should be taken to not damage the rim's carbon fiber or composite materials. Any damage may result in a loss of structural integrity, which may result in a catastrophic failure. This damage may or may not be visible in inspection. Before each ride, and after any crash, you should carefully inspect your wheels for any dents, fraying, gouging, scratches through the paint, chipping, bending, or any other signs of damage. Do not ride if your wheels show any of these signs. After any crash, and before you ride any further, take your bicycle to an authorized Roval retailer for a complete inspection.**
- **Roval composite rims are made to be lightweight, and are not suitable for all riders and all possible uses. If the rider is approaching 250 pounds in weight (i.e., 240 pounds, etc.), Specialized recommends against use of this wheel. Failure to follow this warning may result in a catastrophic failure of the wheel, causing serious personal injury or death.**

WARRANTY

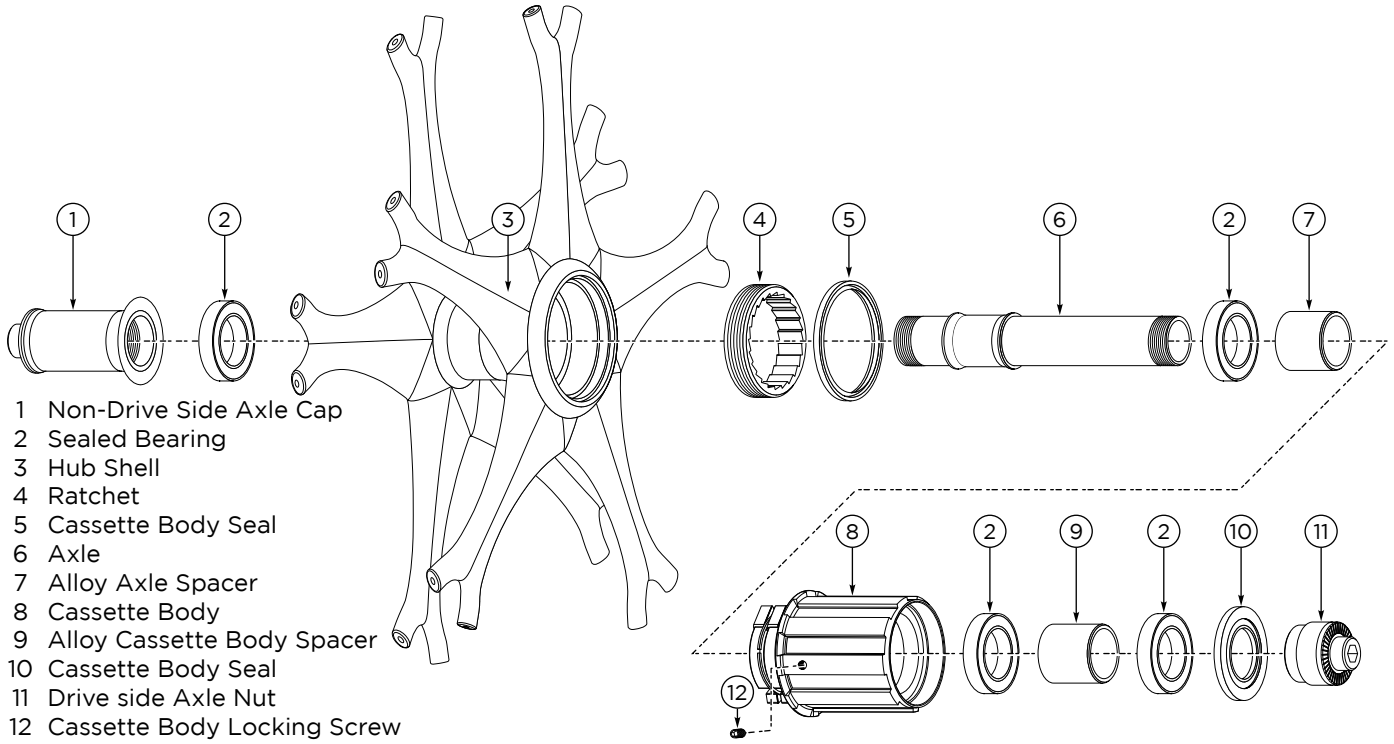
For the complete warranty provisions, please refer to the Specialized Owner's Manual or www.specialized.com.

Periodically review the tech support section at www.specialized.com for updates and additional technical information regarding this product.

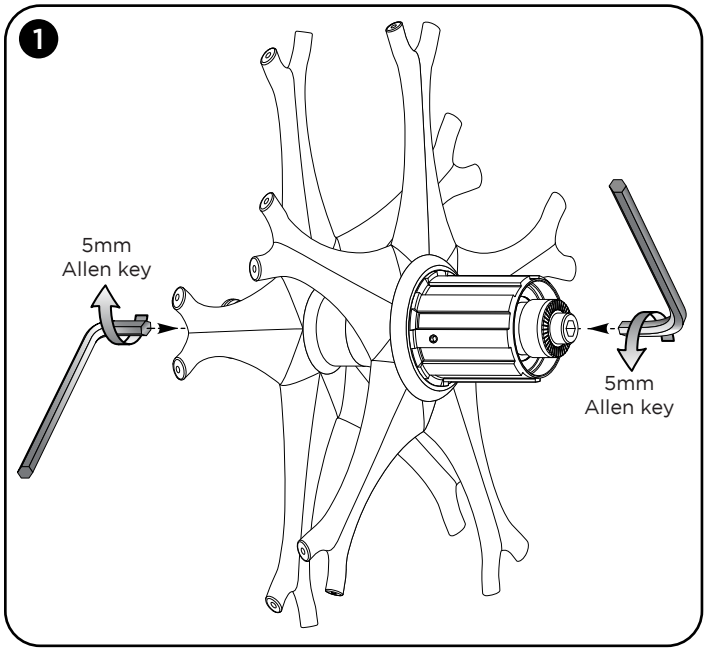
SPECIALIZED BICYCLE COMPONENTS
15130 Concord Circle, Morgan Hill, CA 95037 (408) 779-6229

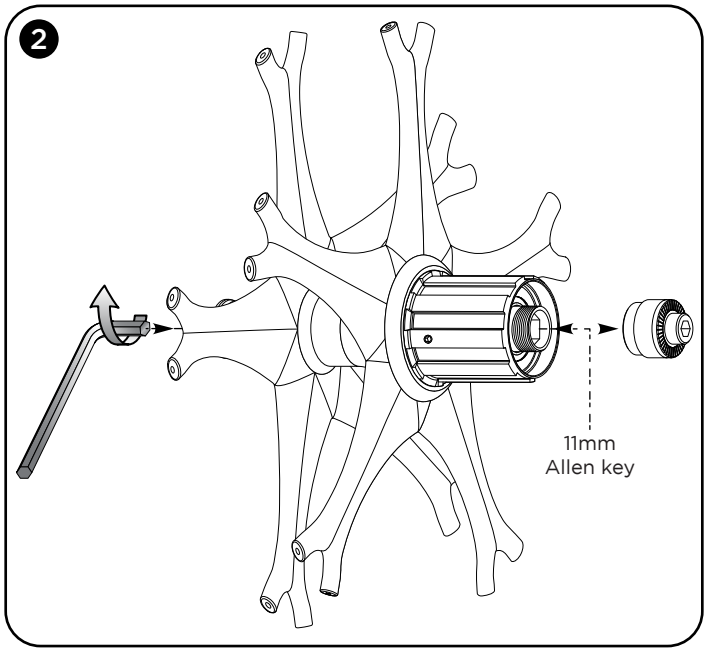
Please note all instructions are subject to change for improvement without notice.
Rev.3, September 2006

HIGH FLANGE HUB MAINTENANCE - ASSEMBLY / DISASSEMBLY

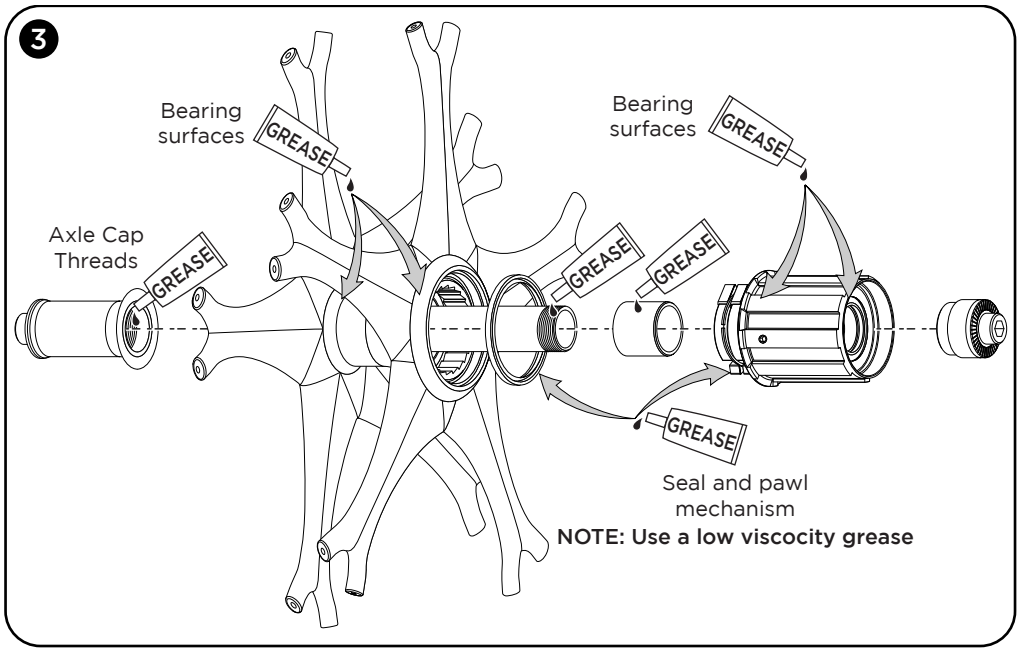


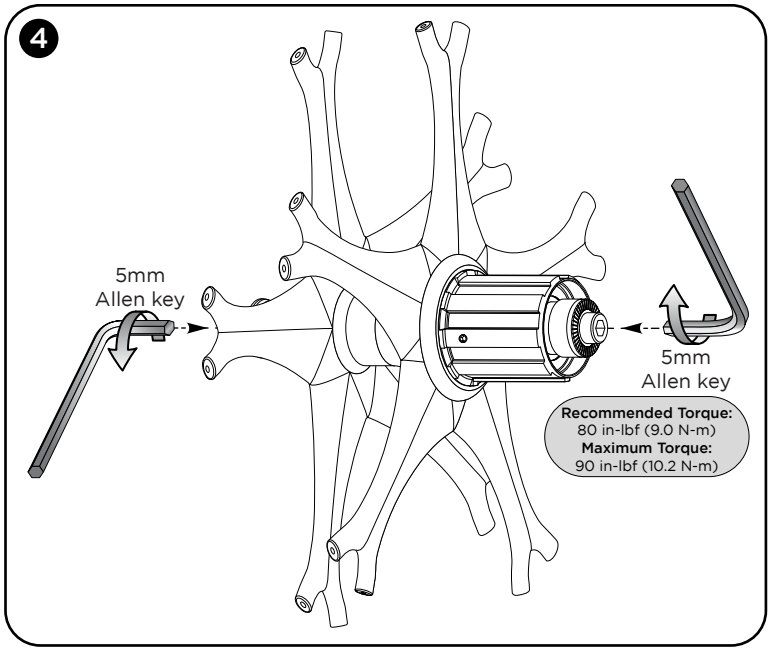
1 Non-Drive Side Axle Cap
2 Sealed Bearing
3 Hub Shell
4 Ratchet
5 Cassette Body Seal
6 Axle
7 Alloy Axle Spacer
8 Cassette Body
9 Alloy Cassette Body Spacer
10 Cassette Body Seal
11 Drive side Axle Nut
12 Cassette Body Locking Screw





NOTE: For front and rear hub axle end cap removal, when using both 5mm Allen keys (fig.1), only one side will come off. To remove the second axle end cap (fig.2), place an 8mm Allen key (front hub) or an 11mm Allen key (rear hub) inside the axle and place a 5mm Allen key in the remaining axle end cap.





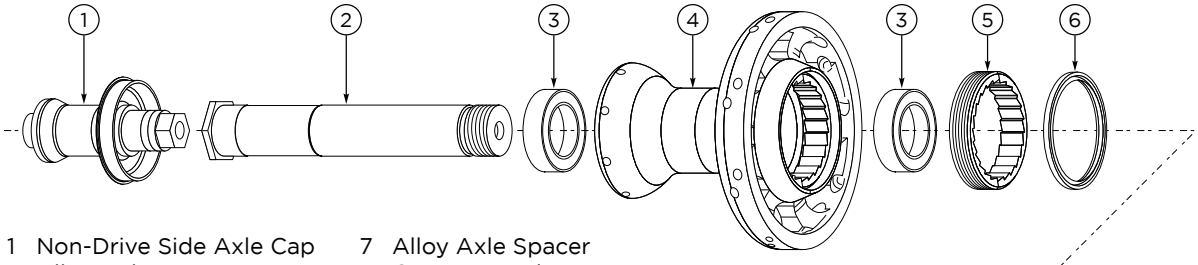
ADDITIONAL MAINTENANCE INFO:

FRONT HUB: The steps are the same as the rear hub, without the parts specific to the cassette body (1 axle, 2 bearings, 2 axle caps).

AXLES: Front and rear Star Hub axle extraction requires removal of the hub bearings, due to the axle flanges between the hub bearings. This service should be performed by an authorized Roval service center.

For additional information on Roval wheel service for spoke repair/replacement, bearing, cassette body or rim replacement, please contact your local Specialized dealer, or the Specialized Customer Service department, e-mail at customerservice@specialized.com or call (877) 808-8154.

LOW FLANGE HUB MAINTENANCE - DISASSEMBLY



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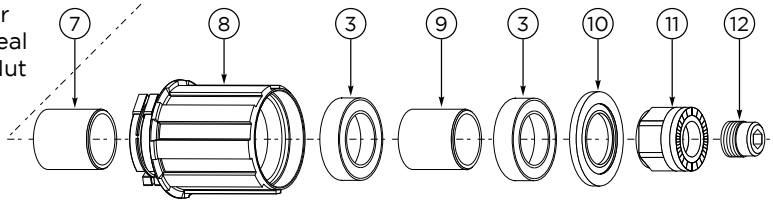
11 Drive side Axle Nut
12 Locking screw



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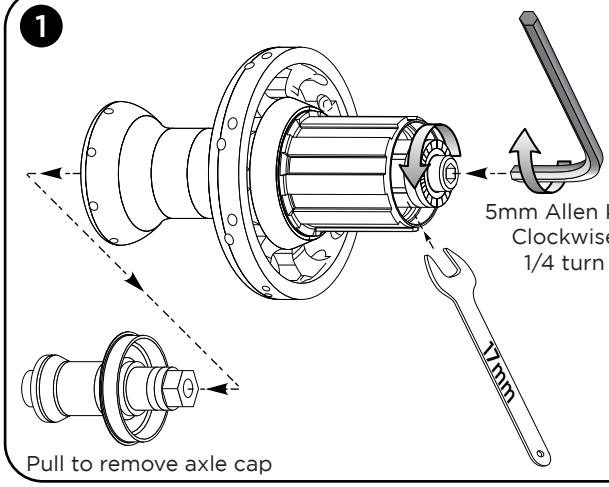

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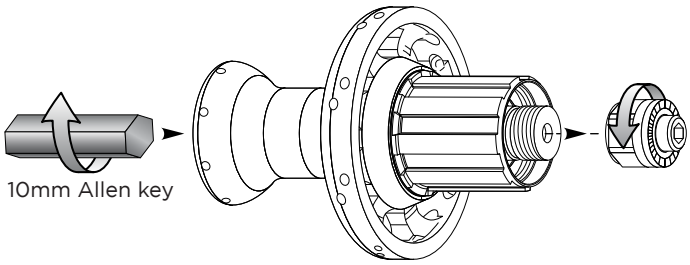

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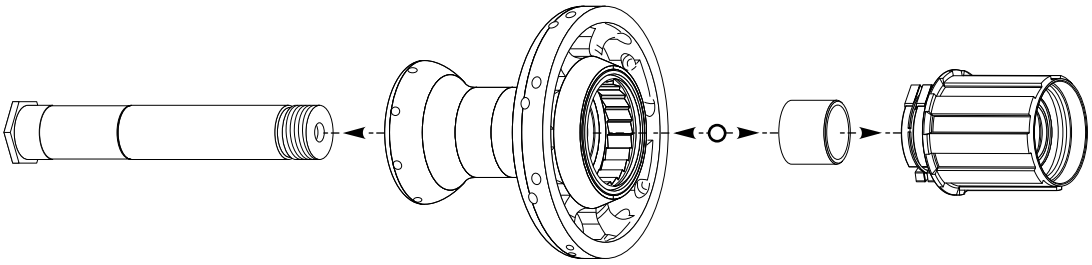

- Pull cassette body off by hand
- Remove spacer
- Push axle out with thumb

- Rotate the bearings with a finger to feel for roughness or play. If the bearings show signs of roughness or play, replace the bearings.
- Clean bearing surfaces.

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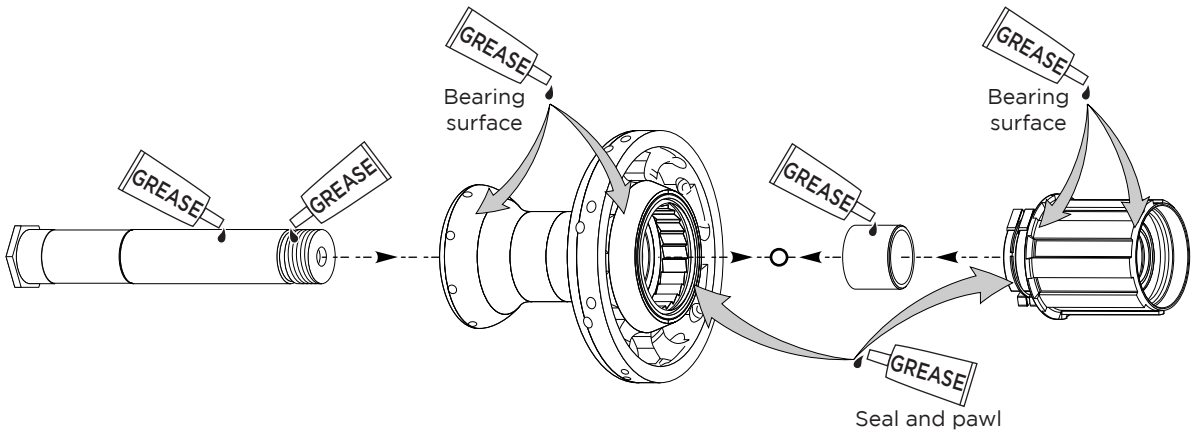

NOTE: Use a low viscocity grease

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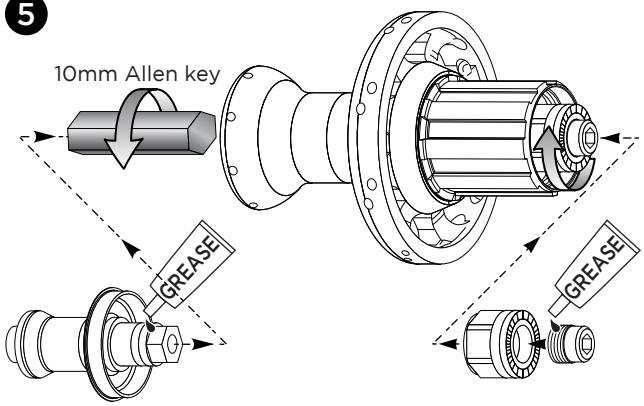

- Finger tighten drive side axle nut, use 10mm Allen in axle.
- Check for bearing play, wiggle back and forth.

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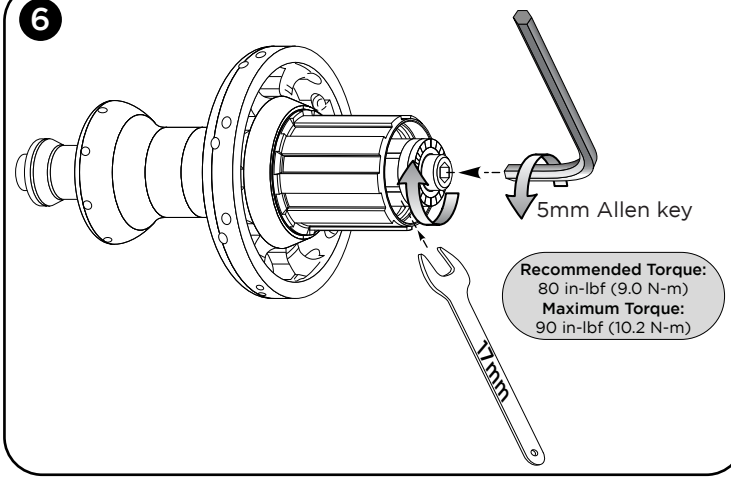

- Rear wheel: Do not install cassette immediately.
- Install the wheels in the front and rear dropouts, check for any bearing play at the rim. If any play is felt, remove wheel and repeat adjustment steps.
- Install cassette on rear hub.

LOW FLANGE FRONT HUB:

Follow the same assembly/disassembly steps as the rear hub.
One side Alloy axle cap: non-adjustable.
Other side Steel axle cap: adjustable, same as rear hub.

- Unlock and unthread adjustable axle cap.
- Push axle out with thumb.
- Service bearings same as rear hub.